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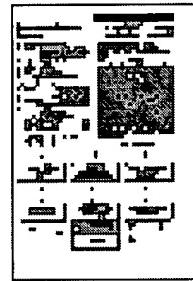
Title: [JP2000164249A2: Nonaqueous Electrolyte and Nonaqueous Electrolyte Secondary Battery](#)

Country: JP Japan**Kind:** A2 Document Laid open to Public inspection!**Inventor:** HAYASHI TAKASHI;
TAN HIROAKI;**Assignee:** MITSUI CHEMICALS INC
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** June 16, 2000 / Nov. 27, 1998**Application Number:** JP1998000336632**IPC Code:** H01M 10/40;**Priority Number:** Nov. 27, 1998 JP1998000336632**Abstract:**

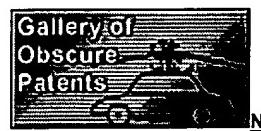
PROBLEM TO BE SOLVED: To provide an electrolyte with low heat generation speed and high safety by constituting with a nonaqueous solvent containing fluorine-containing cyanoethyl ether compound and an electrolyte.

SOLUTION: A nonaqueous electrolyte contains fluorine-containing cyanoethyl ether compound represented by the formula: X-(OR)_n-OCH₂CH₂-CN. In the formula, X shows 1-10C fluorine atom substituted hydrocarbon group, R shows 2-4C alkylene group, and (n) is 0-30. The nonaqueous solvent preferably contains cyclic carbonate and/or chain carbonate, the cyclic carbonate is a compound containing 2-5C alkylene group, and the chain carbonate is a compound containing 1-5C hydrocarbon group. An electrolyte is selected from LiPF₆, LiBF₆, and LiOSO₂R₁. R₁ shows 1-6C perfluoroalkyl group. A negative electrode containing metallic lithium, a lithium-containing alloy, and a carbon material capable of doping/undoping lithium ions as a negative active material is used.

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Family: None**Other Abstract Info:** CHEMABS 133(02)020143S CHEMABS 133(02)020143S DERABS G2000-456796 DERABS G2000-456796[View Image](#)

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(19)

(11) Publication number: **2000164249 A**

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PATENT ABSTRACTS OF JAPAN(21) Application number: **10336632**(51) Int'l. Cl.: **H01M 10/40**(22) Application date: **27.11.98**

(30) Priority:

(43) Date of application **16.06.00**
publication:(84) Designated contracting
states:(71) Applicant: **MITSUI CHEMICALS INC**(72) Inventor: **HAYASHI TAKASHI
TAN HIROAKI**

(74) Representative:

**(54) NONAQUEOUS
ELECTROLYTE AND
NONAQUEOUS
ELECTROLYTE
SECONDARY BATTERY**

(57) Abstract:

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